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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/805,899	03/15/2001	Seongmoon Wang	A7936	3488

7590

09/05/2003

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EXAMINER

CHASE, SHELLY A

ART UNIT

PAPER NUMBER

2133

DATE MAILED: 09/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/805,899

Applicant(s)

WANG, SEONGMOON

Examiner

Shelly A Chase

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 January 1935.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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DETAILED ACTION

1. Claims 1 to 35 are presented for examination.

Drawings

2. The drawings are objected to because of the problems addressed in the attached PTO-948.

Claim Objections

3. Claims 1 to 35 are objected to because of the following informalities: the claims are replete with errors and should be revised carefully. Examples of such errors are: claim 1, "each new test cube" and "overheads" recited on line 9, and claim 8, "the global generator" recited in step K.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Malgorzata
(*Deterministic built in self test*).

Claim 1:

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Malgorzata teaches star test that is a novel test pattern generation technique to detect most faults in a circuit (see abstract), comprising: fault clustering for a hard to detect fault based on low controllability and low observability ("identifying hard to detect faults"), (see pg. 2 sect. 3), and a deterministic test generator generates patterns based on the center pattern from the identified fault cluster ("generating the test set for the hard to detect faults by using an automatic test pattern generator"), (see pg. 2 sect. 3). Malgorzata also teaches generating children patterns by bit flipping for each affected region, restricting the bit flipping to a specified rate based on estimates of run time and test size to achieve lower overhead (see pg. 3, sect. 4 & 5); interpreted as "the automatic test pattern generator comprises functionality for a global generator and consider hardware overhead....".

Allowable Subject Matter

6. Claims 2 to 35 are held in abeyance for patentability determination pending the response to the information requirement attached to this office action.

MPEP 704.12(a) states In contrast with the applicant's duty to disclose on his or her own initiative information material to patentability under 37 CFR 1.56, the Office has the authority to require information reasonably necessary to the examination or treatment of a matter in an application. Such information may not be considered material to patentability by applicant, hence applicant would not be required to provide the information under 37 CFR 1.56. The information is instead reasonably necessary to determine the state of the art, the context in which the invention is practiced, the directions in which the relevant art are advancing, the similarity between the claimed

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subject matter and other art worked on by the applicants and their assignees or to otherwise proceed in the examination and treatment of matters in an application.

Similar to 37 CFR 1.56, applicant is required by 37 CFR 1.105 to submit information already known, but there is no requirement to search for information that is unknown. Unlike 37 CFR 1.56, applicant is required by 37 CFR 1.105 to submit information that may not be material to patentability in itself, but that is necessary to obtain a complete record from which a determination of patentability may be determined.

Conclusion

7. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 746-7238, (for After Final communications)

(703) 746-7239, (for Official or Formal communications)

Or:

(703) 746-7240, (for Non-Official or Informal or "DRAFT"
communications)

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal
Drive, Arlington, VA.,

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelly A Chase whose telephone number is 703-308-7246. The examiner can normally be reached on Mon-Thur from 8:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 703-305-9595.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.


Shelly A Chase

37 C.F.R. § 1.105 Request for Information
Attached to paper # 5

1. Applicant and the assignee of this application are required under 37 CFR 1.105 to provide the following information that the examiner has determined is reasonably necessary to the examination of this application.
2. In response to this requirement, please provide a copy of each of the following items of art referred to in the specification excluding repeated art on pages 3 to 83.
3. In responding to those requirements that require copies of documents, where the document is a bound text or a single article over 50 pages, the requirement may be met by providing copies of those pages that provide the particular subject matter indicated in the requirement, or where such subject matter is not indicated, the subject matter found in applicant's disclosure.
4. The fee and certification requirements of 37 CFR 1.97 are waived for those documents submitted in reply to this requirement. This waiver extends only to those documents within the scope of this requirement under 37 CFR 1.105 that are included in the applicant's first complete communication responding to this requirement. Any supplemental replies subsequent to the first communication responding to this requirement and any information disclosures beyond the scope of this requirement under 37 CFR 1.105 are subject to the fee and certification requirements of 37 CFR 1.97.
5. The applicant is reminded that the reply to this requirement must be made with candor and good faith under 37 CFR 1.56. Where the applicant does not have or

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cannot readily obtain an item of required information, a statement that the item is unknown or cannot be readily obtained will be accepted as a complete reply to the requirement for that item.

6. This requirement is an attachment of the enclosed Office action. A complete reply to the enclosed Office action must include a complete reply to this requirement. The time period for reply to this requirement coincides with the time period for reply to the enclosed Office action.

September 2nd, 2003